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1	US 20060013326 A1	20060119	47	Propagation path estimation method and apparatus	375/260	
2	US 20050276348 A1	20051215	24	Method and apparatus for multi-user transmission	375/299	375/260
3	US 20050175116 A1	20050811	72	OFDM, CDMA, spread spectrum, TDMA, cross-correlated and filtered modulation	375/267	375/347
4	US 20050129139 A1	20050616	47	Tag tracking	375/295	
5	US 20050129137 A1	20050616	92	Multiple-output multiple-input (MIMO) communication system, MIMO receiver and MIMO receiving method	375/267	375/347
6	US 20050100120 A1	20050512	24	Wireless internet access system and method	375/347	375/267
7	US 20050031045 A1	20050210	19	Methods and apparatus for synchronously combining signals from plural transmitters	375/260	
8	US 20040227622 A1	20041118	46	Device and method for communicating data signals through multiple power line conductors	375/258	375/260
9	US 20040196923 A1	20041007	72	CDMA, W-CDMA, 3rd generation interoperable modem format selectable (MFS) systems with GMSK modulated systems	375/299	
10	US 20040190636 A1	20040930	33	System and method for wireless communication systems	375/260	375/299; 375/346
11	US 20040141548 A1	20040722	31	Software adaptable high performance multicarrier transmission protocol	375/146	375/260
12	US 20040114675 A1	20040617	32	OFDM pilot tone tracking for wireless LAN	375/149	375/260; 375/327
13	US 20040028146 A1	20040212	14	Method and apparatus for transferring multiple symbol streams at low bit-error rates in a narrowband channel	375/260	

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<b>1</b>	Yoshida; Makoto
<b>2</b>	Vandenameele, Patrick
<b>3</b>	Feher, Kamilo
<b>4</b>	Jones, Aled Wynne et al.
<b>5</b>	Yamada, Takefumi et al.
<b>6</b>	Barton, Melbourne et al.
<b>7</b>	Mayor, Michael A. et al.
<b>8</b>	Giannini, Paul M. et al.
<b>9</b>	Feher, Kamilo
<b>10</b>	Oprea, Alexandru M.
<b>11</b>	Shattil, Steve J.
<b>12</b>	Crawford, James A.
<b>13</b>	Winkler, Clive

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14	US 20040005018 A1	20040108	28	Receiver and method for WLAN burst type signals	375/340	375/260
15	US 20040001556 A1	20040101	14	System implementing closed loop transmit diversity and method thereof	375/267	375/279
16	US 20030156657 A1	20030821	7	Transmitter for transmitting signals over radio channels and mehtod for transmitting signals over radio channels	375/295	
17	US 20030112878 A1	20030619	43	Inroute training in a two-way satellite system	375/259	
18	US 20030063678 A1	20030403	31	OFDM pilot tone tracking to reduce performance loss due to frequency pulling and pushing	375/260	
19	US 20030048834 A1	20030313	66	Spectrally efficient FQPSK, FGMSK, and FQAM for enhanced performance CDMA, TDMA, GSM, OFDM, and other systems	375/219	375/259
20	US 20020191703 A1	20021219	24	Method and apparatus for utilizing channel state information in a wireless communication system	375/267	
21	US 20020159533 A1	20021031	34	OFDM pilot tone tracking for wireless lan	375/260	
22	US 20020159531 A1	20021031	8	OFDM data demodulators synchronization	375/260	375/354
23	US 20020154705 A1	20021024	27	High efficiency high performance communications system employing multi-carrier modulation	375/267	375/261; 375/298; 375/299
24	US 20020150168 A1	20021017	16	Optimum phase error metric for OFDM pilot tone tracking in wireless LAN	375/260	375/262; 375/341
25	US 20020044611 A1	20020418	12	Method of multiple-antenna wireless communication using space-time codes	375/267	
26	US 7010055 B2	20060307	13	System implementing closed loop transmit diversity and method thereof	375/267	375/279

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<b>14</b>	Zhu, Junjie et al.
<b>15</b>	Harrison, Robert Mark et al.
<b>16</b>	Schrader, Marc et al.
<b>17</b>	Kloper, David
<b>18</b>	Crawford, James A.
<b>19</b>	Feher, Kamilo
<b>20</b>	Ling, Fuyun et al.
<b>21</b>	Crawford, James A.
<b>22</b>	Reagan, John et al.
<b>23</b>	Walton, Jay R. et al.
<b>24</b>	Crawford, James A.
<b>25</b>	Hassibi, Babak et al.
<b>26</b>	Harrison; Robert Mark et al.

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27	US 7006848 B2	20060228	31	Method and apparatus for utilizing channel state information in a wireless communication system	455/562.1	375/267; 455/101
28	US 6990345 B2	20060124	27	Method and apparatus for wireless position location	455/440	375/148; 375/267; 455/65; 455/70
29	US 6990137 B2	20060124	36	System and method for received signal prediction in wireless communications systems	375/142	370/334; 375/150; 375/267; 375/343; 375/347; 375/349; 455/137; 455/273; 455/278.1
30	US 6980091 B2	20051227	50	Power line communication system and method of operating the same		333/24R; 375/259; 700/286; 702/62; 709/224
31	US 6980090 B2	20051227	42	Device and method for coupling with electrical distribution network infrastructure to provide communications		375/222; 375/259
32	US 6965303 B2	20051115	49	Power line communication system and method	375/260	307/3; 340/310.1 7; 370/485; 375/258
33	US 6965302 B2	20051115	38	Power line communication system and method of using the same	370/475	375/259
34	US 6959052 B2	20051025	25	Receiving apparatus, receiving method, program and information recording medium	375/340	370/206; 370/212; 375/260
35	US 6952455 B1	20051004	21	Adaptive antenna method and apparatus	375/267	375/299

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<b>27</b>	Ling; Fuyun et al.
<b>28</b>	Kuwahara; Mikio et al.
<b>29</b>	Smee; John Edward et al.
<b>30</b>	White, II; Melvin Joseph et al.
<b>31</b>	Mollenkopf; James Douglas
<b>32</b>	Mollenkopf; James Douglas
<b>33</b>	Mollenkopf; James Douglas et al.
<b>34</b>	Harada; Hiroshi et al.
<b>35</b>	Banister; Brian

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36	US 6952454 B1	20051004	32	Multiplexing of real time services and non-real time services for OFDM systems	375/260	370/208; 370/480; 375/295; 375/340
37	US 6944236 B2	20050913	10	Method of multiple-antenna wireless communication using space-time codes	375/267	375/299
38	US 6937665 B1	20050830	25	Method and apparatus for multi-user transmission	375/260	370/210; 375/340
39	US 6879878 B2	20050412	43	Method and system for controlling a robot	700/245	318/568.1 1; 342/353; 342/89; 375/295; 375/316; 700/247; 700/248; 700/249; 700/250; 700/259; 701/207; 701/209; 701/213; 701/23
40	US 6868112 B2	20050315	11	Apparatus and method for detecting signals of space-time coding based on transmission diversity	375/147	370/204; 370/342; 370/470; 375/267; 375/342

	<b>Inventor</b>
<b>36</b>	Jalali; Ahmad et al.
<b>37</b>	Hassibi; Babak et al.
<b>38</b>	Vandenameele; Patrick
<b>39</b>	Glenn; Susan J. et al.
<b>40</b>	Kim; Yeon-Soo et al.



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41	US 6844841 B1	20050118	12	Radio frequency link performance tool process and system	342/13	342/16; 342/165; 342/173; 342/175; 342/195; 342/450; 375/130; 375/140; 375/146; 375/147; 375/219; 375/295; 375/316; 455/84
42	US 6834043 B1	20041221	26	Method and device for exploiting transmit diversity in time varying wireless communication systems	370/310	370/203; 370/335; 370/342; 375/295; 375/347; 455/65; 455/69
43	US 6810087 B2	20041026	25	Ultra-wideband communications system	375/259	332/185; 380/33; 380/35
44	US 6771706 B2	20040803	22	Method and apparatus for utilizing channel state information in a wireless communication system	375/267	375/260; 375/296; 375/347; 375/349; 455/101
45	US 6760387 B2	20040706	35	Impulse radio receiver and method for finding angular offset of an impulse radio transmitter	375/267	
46	US 6757334 B1	20040629	72	Bit rate agile third-generation wireless CDMA, GSM, TDMA and OFDM system	375/259	375/219; 375/261; 375/296; 375/298
47	US 6665348 B1	20031216	76	System and method for interoperable multiple-standard modulation and code selectable Feher's GMSK, enhanced GSM, CSMA, TDMA, OFDM, and third-generation CDMA, W-CDMA and B-CDMA	375/259	375/130; 375/219; 375/261; 375/298

	<b>Inventor</b>
<b>41</b>	Masciulli; Michael
<b>42</b>	Vook; Frederick W. et al.
<b>43</b>	Hector; Ralph Thomas et al.
<b>44</b>	Ling; Fuyun et al.
<b>45</b>	Langford; David W. et al.
<b>46</b>	Feher; Kamilo
<b>47</b>	Feher; Kamilo

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48	US 6633616 B2	20031014	32	OFDM pilot tone tracking for wireless LAN	375/326	370/206; 370/210; 375/147; 375/260; 375/349
49	US 6549583 B2	20030415	16	Optimum phase error metric for OFDM pilot tone tracking in wireless LAN	375/260	370/206; 370/210; 375/130; 375/349
50	US 6510181 B1	20030121	14	Method and device for transmitting information, method and device for receiving information	375/259	375/295; 375/316
51	US 6493398 B1	20021210	47	Burst mode digital communications system	375/295	375/324
52	US 6487252 B1	20021126	12	Wireless communication system and method for synchronization	375/260	370/320; 370/324; 370/330; 370/350; 370/481; 370/482; 370/503; 370/509; 370/513; 370/515; 375/142; 375/145; 375/149; 375/295; 375/316; 375/330; 375/342; 375/343; 375/355; 375/362; 375/364; 375/367

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<b>48</b>	Crawford; James A.
<b>49</b>	Crawford; James A.
<b>50</b>	Piret; Philippe
<b>51</b>	Erisman; David E.
<b>52</b>	Kleider; John Eric et al.

	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
53	US 6473467 B1	20021029	29	Method and apparatus for measuring reporting channel state information in a high efficiency, high performance communications system	375/267	370/208; 370/210; 375/144; 375/260; 375/299; 375/347
54	US 6470055 B1	20021022	71	Spectrally efficient FQPSK, FGMSK, and FQAM for enhanced performance CDMA, TDMA, GSM, OFDM, and other systems	375/259	370/215; 375/219; 375/261; 375/269; 375/298; 375/308; 375/329
55	US 6327310 B1	20011204	8	Wireless transmission method for antenna arrays, having improved resistance to fading	375/259	375/267; 375/346; 375/347
56	US 6317688 B1	20011113	14	Method and apparatus for achieving sole means navigation from global navigation satellite systems	701/213	244/3.1; 244/3.2; 340/990; 340/994; 342/353; 342/357.0 8; 342/357.1 4; 375/259; 375/377; 701/214; 701/215; 701/220; 701/221
57	US 6314127 B1	20011106	18	System and method for enhancing signal reception	375/144	375/148; 375/267; 375/347; 375/349; 455/137

	<b>Inventor</b>
<b>53</b>	Wallace; Mark et al.
<b>54</b>	Feher; Kamilo
<b>55</b>	Hochwald; Bertrand M. et al.
<b>56</b>	Bruckner; Juergen M. et al.
<b>57</b>	Lynch; Michael A. et al.

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58	US 6239741 B1	20010529	10	UWB dual tunnel diode detector for object detection, measurement, or avoidance	342/135	342/118; 342/134; 342/175; 342/195; 342/21; 342/27; 342/70; 342/89; 375/295; 375/316; 375/340
59	US 6178207 B1	20010123	34	Aircraft combat training signal processing system	375/259	342/450; 375/316
60	US 6028900 A	20000222	17	Digital broadcast receiver	375/344	329/304; 375/260; 455/182.2
61	US 5812598 A	19980922	32	Hearing assist system employing time variant modulation transmission to hearing aid	375/259	381/312; 381/321; 381/94.1; 381/94.8
62	US 5615229 A	19970325	33	Short range inductively coupled communication system employing time variant modulation	375/259	381/312; 381/314; 381/79; 455/41.1
63	US 5568516 A	19961022	39	Very low power cordless headset system	375/259	375/219; 375/258; 381/163; 455/41.1
64	US 5285480 A	19940208	15	Adaptive MLSE-VA receiver for digital cellular radio	375/348	370/337; 375/295; 375/341; 375/343; 708/319
65	US 5170413 A	19921208	17	Control strategy for reuse system assignments and handoff	375/260	370/332; 375/267; 375/347; 375/358; 455/59; 455/71

	<b>Inventor</b>
<b>58</b>	Fontana; Robert J. et al.
<b>59</b>	Richards; Wayne E. et al.
<b>60</b>	Taura; Kenichi et al.
<b>61</b>	Sharma; Madan M. et al.
<b>62</b>	Sharma; Madan M. et al.
<b>63</b>	Strohallen; Gene M. et al.
<b>64</b>	Chennakeshu; Sandeep et al.
<b>65</b>	Hess; Garry C. et al.



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66	US 4837786 A	19890606	45	Technique for mitigating rain fading in a satellite communications system using quadrature phase shift keying	370/206	370/317; 370/535; 370/538; 370/543; 370/914; 375/138; 375/260; 375/267; 375/347; 375/349; 380/34
67	US 4494238 A	19850115	23	Multiple channel data link system	375/141	375/267; 455/315; 455/506; 455/59
68	US 4347618 A	19820831	109	Apparatus for processing weather radar information	375/259	342/26D; 348/442; 455/9; 702/3
69	US 4153881 A	19790508	13	Early flood warning system	375/242	327/301; 340/539.1; ; 340/539.2 6; 340/620; 375/259; 73/304R
70	US 4104638 A	19780801	9	Cooperative type anti-collision radio system	342/455	340/825.6 9; 375/295; 455/79
71	US 4066964 A	19780103	43	Communication system	375/260	340/7.42; 340/7.46; 375/279; 375/373; 380/34; 455/502; 455/65

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<b>66</b>	Gurantz; Itzhak et al.
<b>67</b>	Groth, Jr.; Edward J.
<b>68</b>	Kavouras; Stephen P. et al.
<b>69</b>	Permut; Alan R. et al.
<b>70</b>	Middleton; Raymond R.
<b>71</b>	Costanza; Samuel T. et al.